

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/657,313	09/08/2003	Cheri M. Boykin	1789A1	9768
. 759	90 07/20/2005		EXAM	INER
PPG INDUSTRIES, INC			CHAUDHRY, SAEED T	
INTELLECTUAL PROPERTY DEPT.			ART UNIT	PAPER NUMBER
ONE PPG PLACE			11	FAFER NOMBER
PITTSBURGH, PA 15272			1746	

DATE MAILED: 07/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/657,313	BOYKIN ET AL.
Office Action Summary	Examiner	Art Unit
	Saeed T. Chaudhry	1746
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a reon. , a reply within the statutory minimum of thirt period will apply and will expire SIX (6) MON statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	This action is non-final.	
3) Since this application is in condition for al	·	ers, prosecution as to the merits is
closed in accordance with the practice un		
Disposition of Claims		
4)⊠ Claim(s) <u>1-40</u> is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are wit		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.	·	
8) Claim(s) <u>1-40</u> are subject to restriction an	d/or election requirement.	
Application Papers	•	
9) The specification is objected to by the Exa	miner.	
10) The drawing(s) filed on is/are: a) □		by the Examiner.
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the co	•	, ,
11)☐ The oath or declaration is objected to by the		•
Priority under 35 U.S.C. § 119		
12)☐ Acknowledgment is made of a claim for for a)☐ All b)☐ Some * c)☐ None of:	reign priority under 35 U.S.C. §	119(a)-(d) or (f).
1.☐ Certified copies of the priority docur	ments have been received.	
2. Certified copies of the priority docur		polication No.
3. Copies of the certified copies of the		
application from the International Bu		
* See the attached detailed Office action for a		received.
	-	•
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Su	ummary (PTO-413)
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948	B) Paper No(s))/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date S. Patent and Trademark Office	5) Notice of Inf 6) Other:	formal Patent Application (PTO-152) —·

Application/Control Number: 10/657,313

Art Unit: 1746

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 1-30, drawn to a method of cleaning a photoactive or hydrophilic surface, classified in Class 134, subclass 28.

Group II: Claims 31-35, drawn to a device having a housing; a first chamber; a flow passage; and a selector valve, classified in Class 134, subclass 84.

Group III: Claims 36-40, drawn to a cleaning solution, classified in Class 510, subclass 108.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (M.P.E.P. § 806.05(e)). In this case the process as claimed can be practiced by another materially different apparatus such as without a first chamber or a selector valve or the apparatus as claimed can be used to practice another and materially different process such as regenerating liquid in an ion exchange bed.

Inventions III and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used as a cooling agent in an heat exchanger.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the cleaning

Application/Control Number: 10/657,313

Art Unit: 1746

solution as claimed herein can be used in another apparatus without a chamber or without a selector valve.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, have acquired a separate status in the art because of their recognized divergent subject matter, the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

A telephone call was made to Mr. Jacques B. Miles on July 12 and 18, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Joint Inventors

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed T. Chaudhry whose telephone number is (571) 272-1298. The examiner can normally be reached on Monday-Friday from 9:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Barr, can be reached on (571)-272-1414. The fax phone number for non-final is (703)-872-9306.

When filing a FAX in Gp 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other

Application/Control Number: 10/657,313

Art Unit: 1746

communication with the PTO that are for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Saeed T. Chaudhry
Patent Examiner

MICHAEL BARR SUPERVISORY PATENT EXAMINER